Rec'd PCT/PTO 22 APR 2005

PATENT COOPERATION TREATMENT

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

JONES, Graham, Henry Graham Jones & Company 77 Beaconsfield Road Blackheath London SE3 7LG GRANDE BRETAGNE

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing

(day/month/year)

30.11.2004

Applicant's or agent's file reference

Jg-2910-PCT

IMPORTANT NOTIFICATION

International application No. PCT/GB 03/04523

20.10.2003

Priority date (day/month/year)

23.10.2002

Applicant

PLASMA ANTENNAS LIMITED ET AL.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.

International filing date (day/month/year)

3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

Weman, E

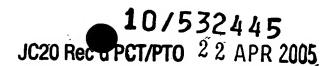
Tel. +49 89 2399-7961





(PCT Article 36 and Rule 70)

See Notification of Trensmittat of International FOR FURTHER ACTION See Notification of Trensmittat of International Flore (For Further ACTION See Notification of Trensmittat of International Processing See Notification of Trensmittation of International Processing See Notification of International Processing Section (International Processing See Notificational Processing Section (International Processing See Notificational Processing Se									
PCTGB 03/04523	_			ent's file reference	FOR FURTHER A				16)
Applicant PLASMA ANTENNAS LIMITED ET AL. 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 5 sheets, including this cover sheet. ☑ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative instructions under the PCT). These annexes consist of a total of 2 sheets. 3. This report contains indications relating to the following items: □ □ Basis of the opinion □ □ Priority □ □ Lack of unity of invention ∨ ☑ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step and industrial applicability citations and explanations supporting such statement ∨ □ Certain documents cited ∨ □ Certain defects in the international application ∨ □ Certain defects in the international application ∨ □ Certain observations on the international application □ Certain observations on the international application □ Date of submission of the demand □ Date of completion of this report □ 27.04.2004 □ Name and mailing address of the International preliminary examining authority: □ European Patent Office □ Description of this 523656 epmu d	1					(day/mont	th/year)	' ' ' ' '	
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citations and explanations supporting such statement VI		IV		Lack of unity of invent	ion				
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Date of submission of the demand Date of completion of this report		VI		Certain documents cit	ed				
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	European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d					399-8255	M. L. Control		



International application No.

PCT/GB 03/04523

1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filled" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):
Description, Pages
1-14 as originally filed
Claims, Numbers
1-10 received on 24.05.2004 with letter of 21.05.2004
Drawings, Sheets
1/7-7/7 as originally filed
2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
These elements were available or furnished to this Authority in the following language: , which is:
the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
the language of a translation of the international application (under Rule 48.3(b)).
the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).
With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:
contained in the international application in written form.

	The	ese elements were av	ailable or furnished to this Authority in the following language: , which is:				
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
☐ the language of publication of the international application			lication of the international application (under Rule 48.3(b)).				
		the language of a translation for 55.2 and/or 55.2	anslation furnished for the purposes of international preliminary examination (under 3).				
3.			eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inte	rnational application in written form.				
		filed together with th	e international application in computer readable form.				
		furnished subsequently to this Authority in written form.					
		furnished subseque	ntly to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go beyond the disc in the international application as filed has been furnished.						
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequenc ished.	e			
	The	amendments have r	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

International application No.

PCT/GB 03/04523

5.	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

laims 4.8

4,8-10 1-3,5-7

Inventive step (IS)

Yes: Claims

Claims

No: Claims

1-10

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

1. Section V:

In this report, reference is made to the following documents:

D1= DE-A-3 608 451

D2= US-A-3 949 328 (both documents are not cited in the International

Search Report)

The subject-matter of claim 1 is not new (Article 33 (2) PCT). 2.

D1 discloses an electromagnetic switch including a guiding medium and switch means for controlling propagation within the guiding medium (D1, column 1, line 68 - column 2, line 4, D1, Fig., D, H).

The guiding medium comprises a substantially parallel plate structure (D1, Fig., H, rectangular waveguide).

The switch means comprises an array of electromechanical switch elements positioned to allow selective reflection and absorption of an electromagnetic signal in controlled directions (D1, column 2, lines 4-31, D1, Fig., A, D, K, S, R, W; disclosed is a "Dämpfungsglied" providing a "Durchlaßdämpfung" and a "Reflexionsdämpfung").

Hence, D1 discloses a switch having all the features of present claim 1.

- Claims 2, 3 and 5-7 do not add any additional features which go beyond the dis-3. closure of D1 (Article 33 (2) PCT). As to
- claims 2 and 3, D1 discloses a planar waveguide (cf. D1, Fig., H); and a.
- claims 5-7, vaporized mylar elements D, moved as shown in D1, control attenub. ation and reflection (D1, column 2, lines 4-31).
- 4. Insertion of said electromechanical switch elements into other guiding mediums known per se or movement of said elements controlled by associated logic means are modifications obvious for the skilled person. The subject-matter of claims 4 and 8 does not involve an inventive step (Article 33 (3) PCT). Further, HF systems

EXAMINATION REPORT - SEPARATE SHEET

including such a switch lack inventive step (claims 9 and 10).

Remarks on form and contents: 5.

- To meet the requirements of Rule 6.3(b) PCT, the independent claims should be a. properly cast in the two part form, with those features which are part of the prior art (see D1) being placed in the preamble (Rule 6.3(b)(I) PCT) and the subjectmatter, for which protection is sought, being placed in the characterising portion (Rule 6.3(b)(ii) PCT).
- Reference numerals are not incorporated in the claims. The technical features of b. the claims would be rendered more intelligible by relating these features to the corresponding features of the drawings (Rule 6.2(b) PCT). This applies to both the preamble and characterising portion.

Rec'd PCT/PTO 22 APR 2005

TENT COOPERATION TREAT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Jg-2910-PCT				FOR FURTHER AC	TION		n of Transmittal of International amination Report (Form PCT/IPE/	V416)
International application No. PCT/GB 03/04523				International filing date (c) 20.10.2003	day/month	n/year)	Priority date (day/month/year) 23.10.2002	
Interr	nationa	Pater	nt Classification (IPC) or bo	l oth national classification a	nd IPC			
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1.	This	interr ority a	national preliminary examend is transmitted to the	mination report has been applicant according to	n prepar Article 36	ed by this Inte	rnational Preliminary Examinir	ng
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2.	Ihis	KEP	JH I CONSISTS OF A TOTAL O	of 5 sheets, including th	iis covei	Sileet.		
	\boxtimes	This	report is also accompa	nied by ANNEXES, i.e.	sheets o	f the description	on, claims and/or drawings wh	ich have
		beer	n amended and are the Rule 70.16 and Section	basis for this report and n 607 of the Administrati	<i>i</i> or sneet ive Instru	is containing re actions under t	ectifications made before this . the PCT).	Authority
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3.	This	repo	rt contains indications re	elating to the following ite	ems:			
	ı	\boxtimes	Basis of the opinion					
	II		Priority					
ļ	Ш		Non-establishment of	opinion with regard to n	ovelty, ir	nventive step a	and industrial applicability	
	IV		Lack of unity of invent					
	٧	×	Reasoned statement citations and explanat	under Rule 66.2(a)(il) wi ions supporting such sta	ith regar atement	d to novelty, in	ventive step or industrial appli	icability;
	VI		Certain documents cit	ed				
	VII			international application				
	VIII		Certain observations	on the international appl	ication			
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International application No.

PCT/GB 03/04523

1.	Rasis	of the	report
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With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	
1-14			as originally filed
	Clai	ms, Numbers	
	1-10		received on 24.05.2004 with letter of 21.05.2004
	Dra	wings, Sheets	
	1/7-7	7/7	as originally filed
2.	With lang	n regard to the langu Juage in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
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		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).
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3.	With	n regard to any nucle rnational preliminary (ectide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	rnational application in written form.
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International application No.

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- 1. Statement

Novelty (N)

Yes: Claims

No:

ims

4,8-10

No: Claims

1-3,5-7

Inventive step (IS)

Yes: Claims

No: Claims

1-10

Industrial applicability (IA)

Yes: Claims

Claims

1-10

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY

International application No. PCT/GB 03/04523

EXAMINATION REPORT - SEPARATE SHEET

1. Section V:

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INTERNATIONAL PRELIMINARY

International application No. PCT/GB 03/04523

EXAMINATION REPORT - SEPARATE SHEET

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15

CLAIMS

- 1. An electromagnetic switch comprising a guiding medium and switch means for controlling propagation within the guiding medium, characterised in that the guiding medium comprises a substantially parallel plate structure, and the switch means comprises an array of electromechanical switch elements positioned to allow selective reflection and absorption of an electromagnetic signal in controlled directions.
- 2. An electromagnetic switch according to claim 1 in which the guiding medium is a planar guiding medium.
- 3. An electromagnetic switch according to claim 1 or claim 2 in which the guiding medium is a waveguide.
- 4. An electromagnetic switch according to claim 1 or claim 2 in which the guiding medium is made of a semi-conductor material.
- 5. An electromagnetic switch according to any one of the preceding claims in which the electromechanical switch elements are activated by displacement of elements of desired conductivity, with the displacement being electrostatic displacement, electric field displacement, magnetic field displacement, or thermal displacement.

- 6. An electromagnetic switch according to any one of the preceding claims in which the elements are in the form of polymers, powders or liquid suspensions.
- 7. An electromagnetic switch according to any one of the preceding claims in which the parallel plate structure is a microwave parallel plate structure; and including at least one element of controllable reflectivity that may be used to affect the spatial distribution of the electromagnetic energy by absorption of energy.
- 8. An electromagnetic switch according to any one of the preceding claims in which the electromechanical switch elements are controllable through associated logic devices.
- 9. A miniaturised active electromagnetic antenna including at least one electromagnetic switch according to any one of the preceding claims.
- 10. An active electromagnetic delay line including at least one electromagnetic switch according to any one of claims 1 8.